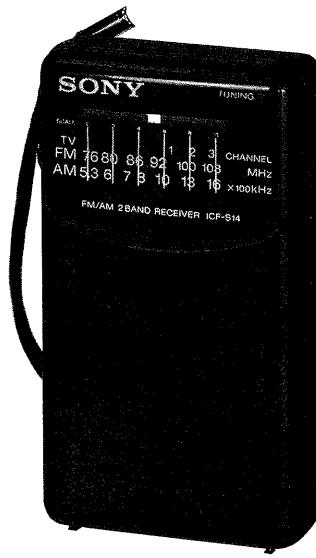


SERVICE MANUAL

US Model



SPECIFICATIONS

Frequency range	FM: 87.6 - 108 MHz AM: 530 - 1,605 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna
Speaker	Approx. 5.7cm(2 1/4 inches) dia.
Power output	100 mW (at 10% harmonic distortion)
Power requirements	3V DC, two R6(size AA) batteries
Battery life	Approx. 30 hours of listening (for four hours a day at a normal volume), using Sony SUM-3(NS) batteries
Dimensions	Approx. 69 x 120 x 335 mm (w/h/d) (2 3/4 x 4 3/4 x 1 3/8 inches)
Weight	Approx. 210 g (7.4 oz.) incl. batteries

Design and specifications subject to change
without notice.

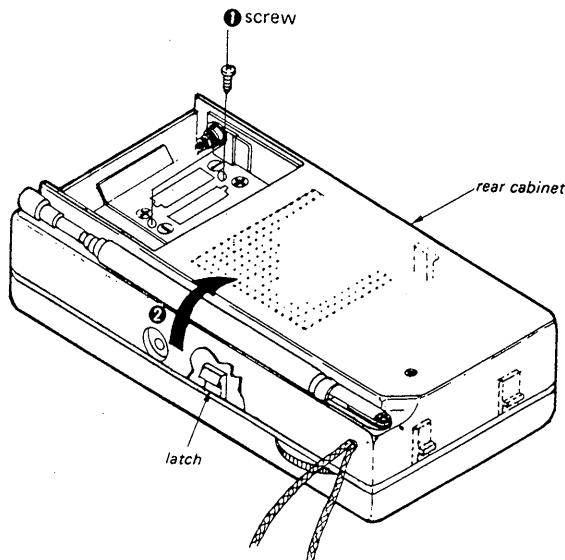
FM/AM 2BAND RECEIVER
SONY®

SECTION 1 DISASSEMBLY

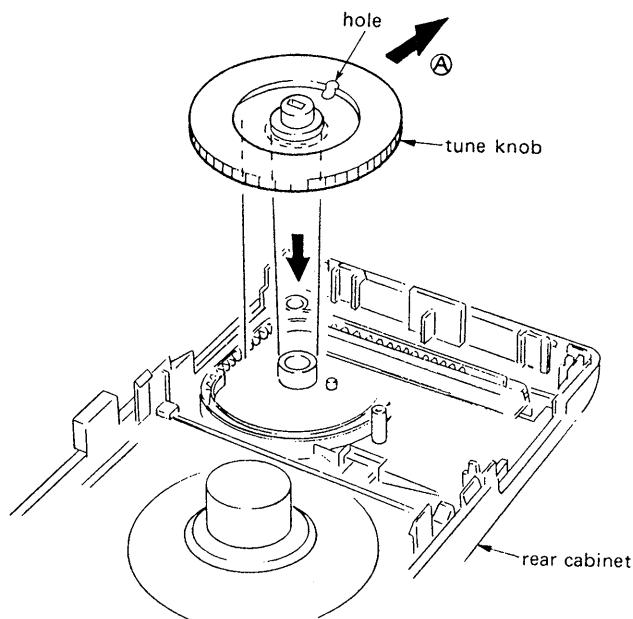
1-1. REAR CABINET REMOVAL

Note: Follow the disassembly procedure in the numerical order given.

1-3. TUNE KNOB INSTALLATION



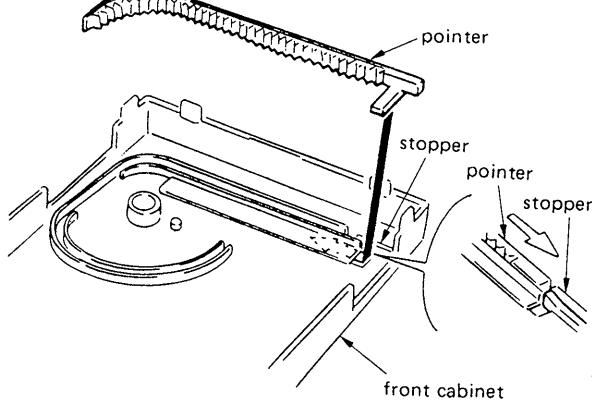
Release the latch by opening the rear cabinet in the direction of arrow ②.



Set the hole of tune knob in the direction of arrow Ⓜ and install it to rear cabinet.

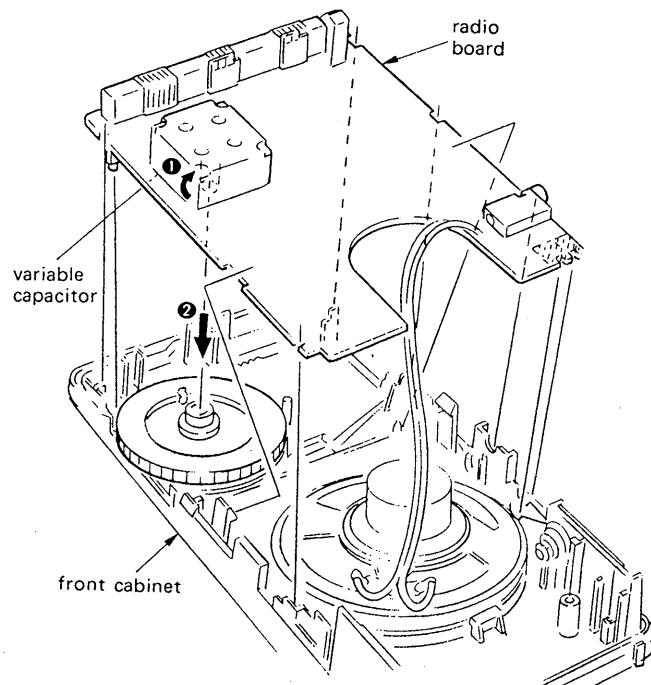
1-2. POINTER SETTING

Slide the pointer to reach the stopper.



1-4. RADIO BOARD INSTALLATION

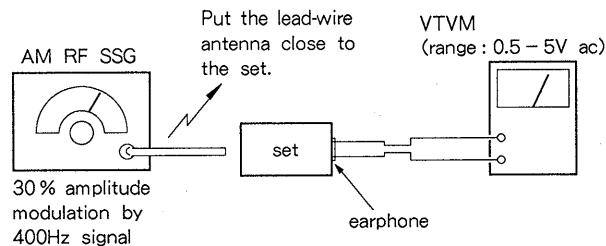
- ① Turn the variable capacitor fully in the direction of arrow.
- ② Install radio board to the front cabinet.



SECTION 2

ADJUSTMENTS

AM SECTION



Repeat the procedure in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM FREQUENCY COVERAGE ADJUSTMENT

Adjust for a maximum reading on VTVM.

L4	CT3
520kHz	1,650kHz

AM TRACKING ADJUSTMENT

Adjust for a maximum reading on VTVM.

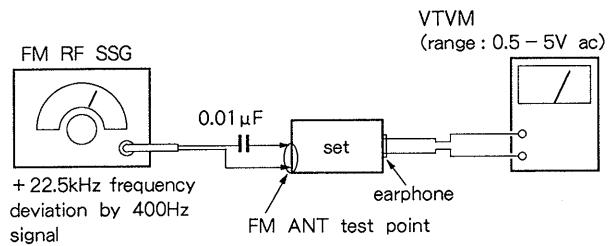
L2	CT1
620kHz	1,400kHz

AM IF ALIGNMENT

Adjust for a maximum reading on VTVM.

T1
455kHz

FM SECTION



Repeat the procedure in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM FREQUENCY COVERAGE ADJUSTMENT

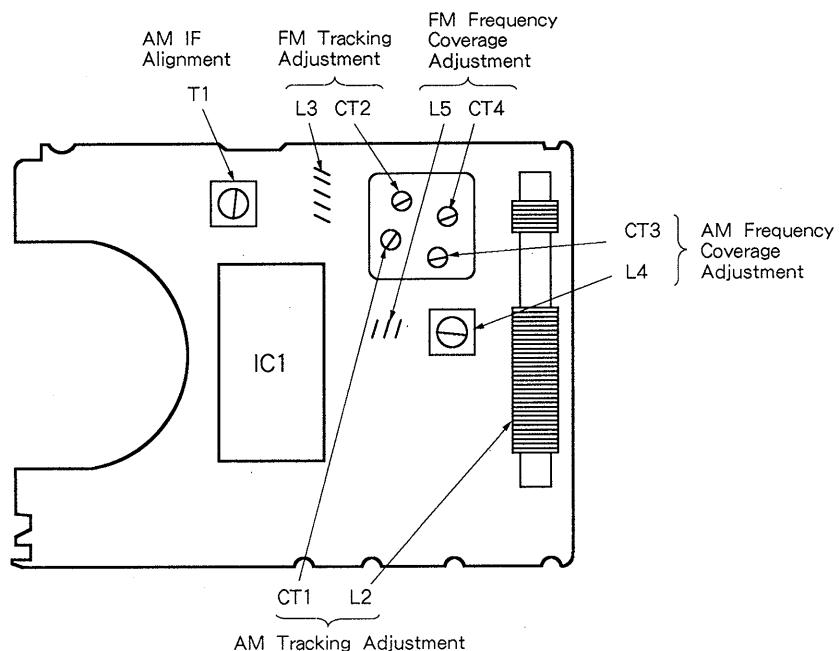
Adjust for a maximum reading on VTVM.

L5	CT4
86.5MHz	109.5MHz

FM TRACKING ADJUSTMENT

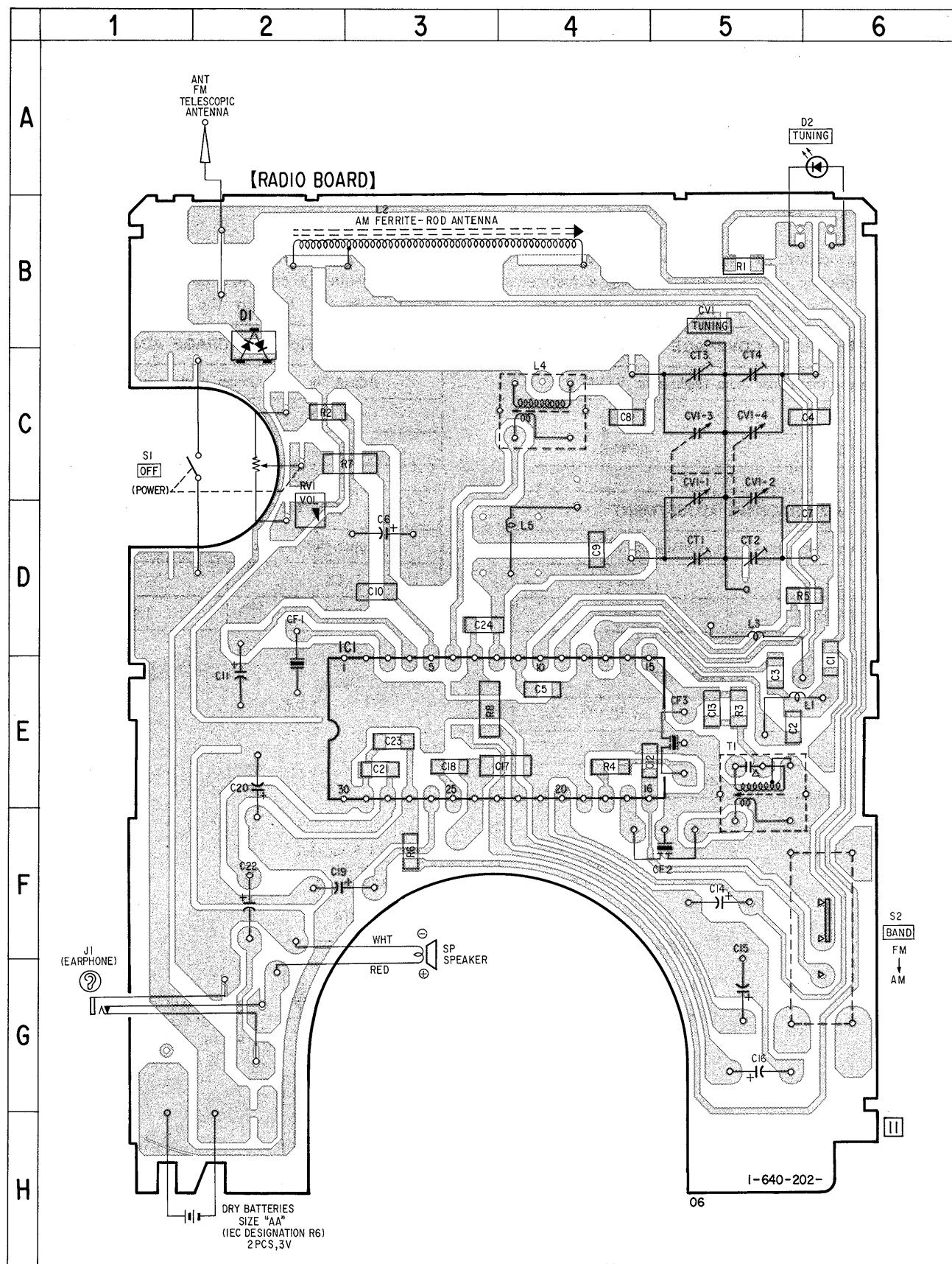
Adjust for a maximum reading on VTVM.

L3	CT2
86.5MHz	109.5MHz



SECTION 3 DIAGRAMS

3-1. PRINTED WIRING BOARD

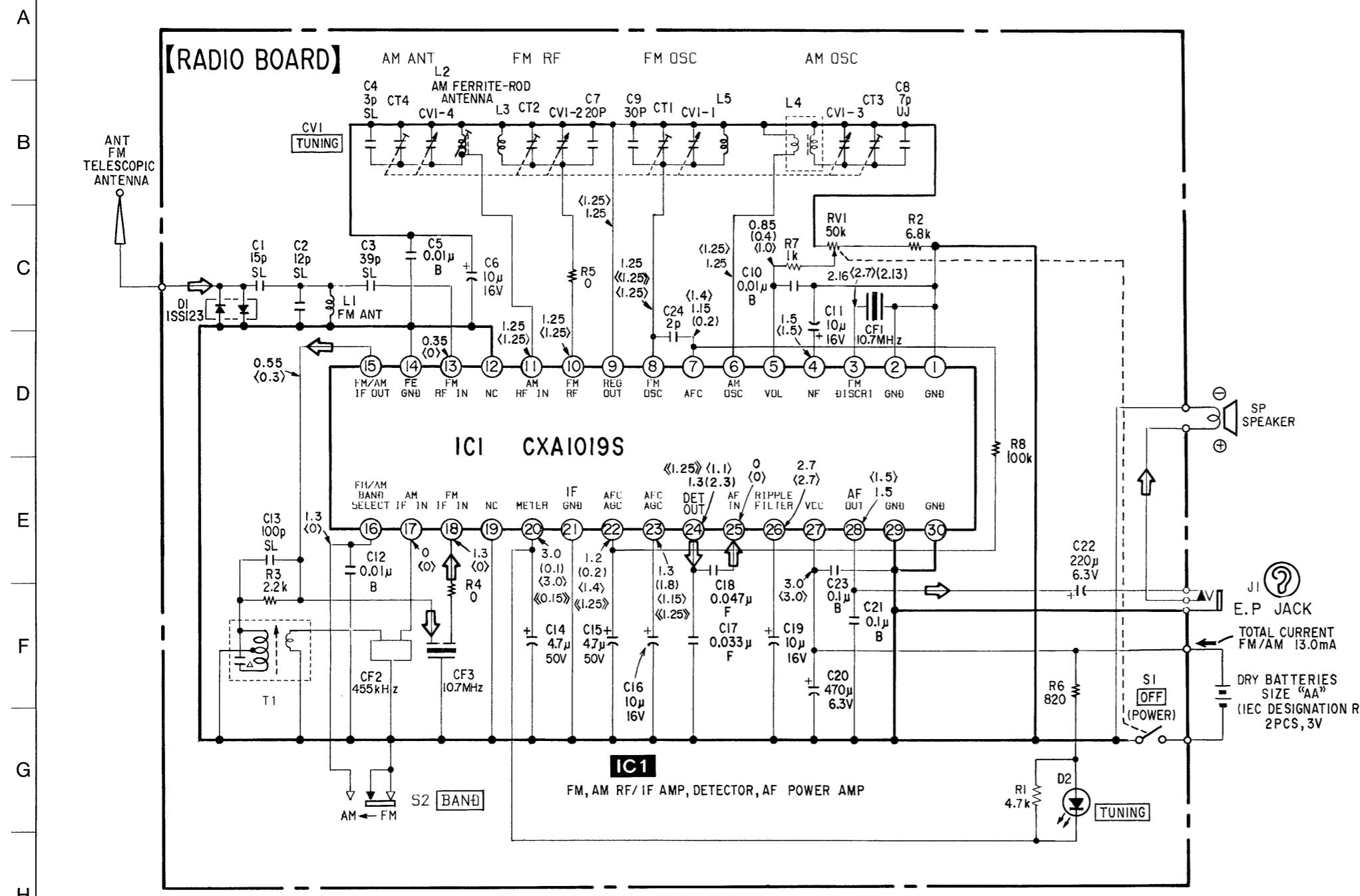


Note:

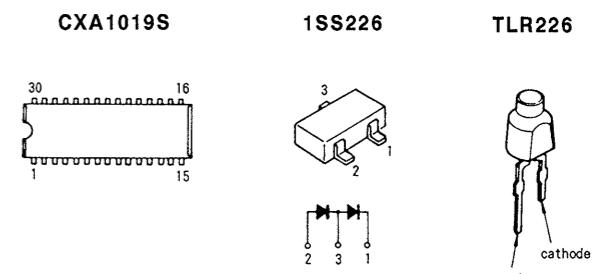
• : parts extracted from the component side.

3-2. SCHEMATIC DIAGRAM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



3-3. SEMICONDUCTOR LEAD LAYOUTS.



Note:

- All capacitors are in μF unless otherwise noted. pF: $\mu\mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.

- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.

- \wedge : internal component,

- Voltage are dc with respect to ground

- Readings are taken under

(50 k Ω /V)

no mark : FM detuned

no mark : FM detailed

() : FM tuned

⟨ ⟩: AM detuned

《 》: AM tuned

- Voltage variations may

tolerances.

- Signal path.

→ : FM

- Switches :

Ref. No.	
----------	--

Ref. No.	Switch	Position
S1	POWER	OFF
S2	BAND	FM

SECTION 4

EXPLODED VIEW

NOTE:

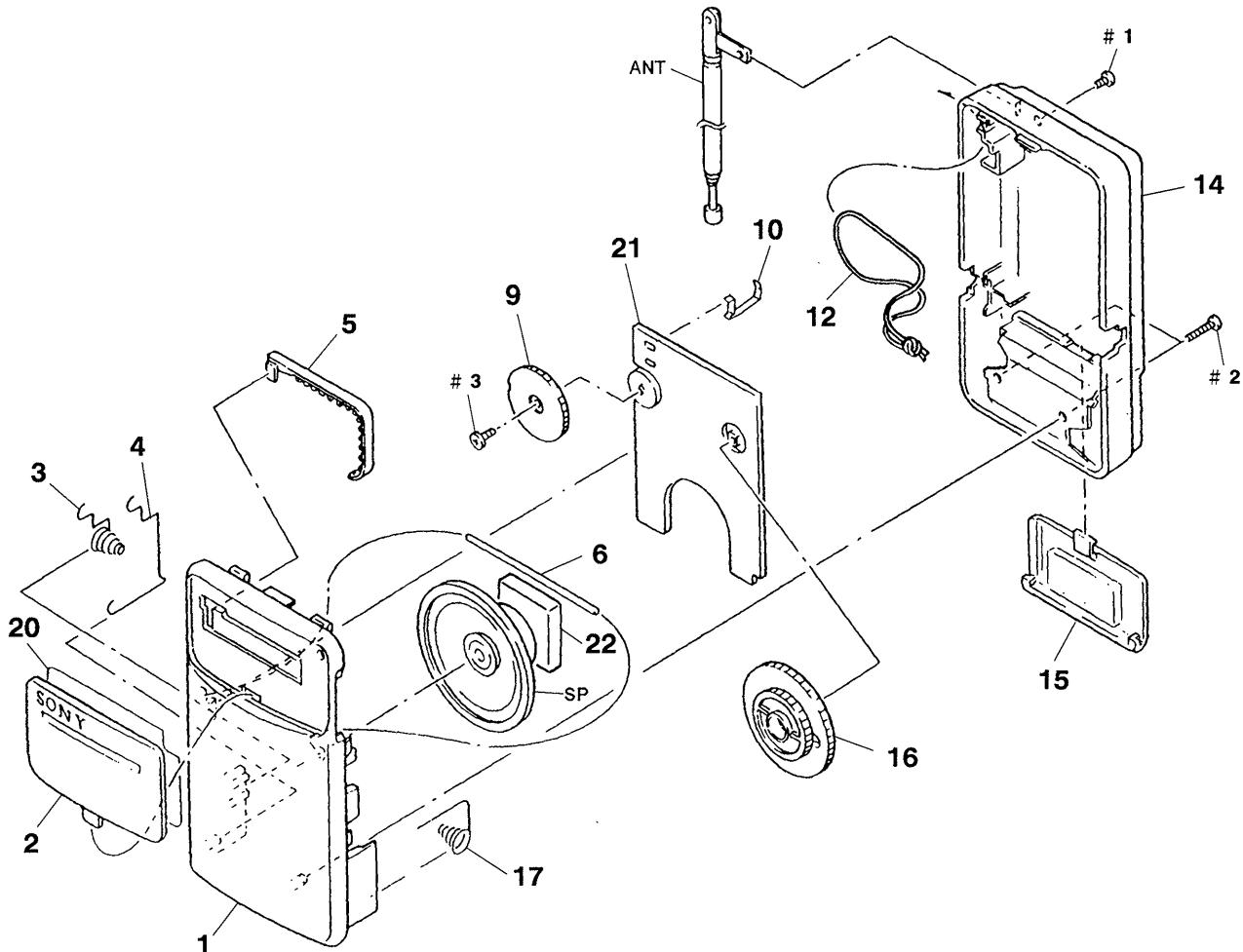
- -XX,-X mean standardized parts, so they may have some difference from the original one.
- Color indication of Appearance Parts.

Example:

KNOB,BALANCE (WHITE) . . . (RED)

↑ ↑
Parts Cabinet's
Color Color

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-903-419-01	CABINET (FRONT)		14	3-369-874-21	CABINET (REAR)	
2	3-369-878-01	SCALE, DIAL		15	X-3363-538-1	ASSY, BATTEREY CASE	
3	3-903-415-01	TERMINAL, PLUS		16	3-903-411-01	KNOB (TUNING)	
4	3-364-778-01	SPRING, MINUS		17	3-903-414-01	TERMINAL, MIDWAY	
5	3-369-877-01	POINTER		20	3-903-417-01	SHEET, ADHESIVE	
* 6	3-903-416-01	SPRING, SPEAKER RETAINER		* 21	A-3679-357-A	RADIO BOARD, COMPLETE	
9	3-893-375-01	KNOB, VOL		22	3-831-441-11	CUSHION	
* 10	3-893-369-01	TERMINAL, ANT		ANT	1-501-247-31	ANTENNA, TELESCOPIC	
	3-893-381-01	STRAP, HAND		SP	1-503-616-11	SPEAKER	

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the part specified in the diagrams or the components used on the set.
- -XX,-X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
All resistors are in ohms
METAL : Metal-film resistor
METAL OXIDE : Metal Oxide-film resistor
F : nonflammable

- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

● SEMICONDUCTORS

In each case, μ : μ , for example :

uA... : μ A..., uPA... : μ PA...,
uPB... : μ PB..., uPC... : μ PC...,
uPD... : μ PD...

● CAPACITORS

μ F : μ F

● COILS

μ H : μ H

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark	
*	A-3679-357-A	RADIO BOARD, COMPLETE			*****			< FILTER >				
	3-893-375-01	KNOB, VOL				CF1	1-567-097-61	FILTER, CERAMIC	10.7MHz			
*	3-893-369-01	TERMINAL, ANT				CF2	1-527-870-00	FILTER	455KHz			
	7-627-552-47	SCREW, PRECISION +P 1.7X4				CF3	1-567-097-61	FILTER, CERAMIC	10.7MHz			
< CAPACITOR >						< TRIMMER >						
C1	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	CT1-4 } CV1-4 }	1-151-691-11	CAP, VAR (FM/AM)				
C2	1-163-095-00	CERAMIC CHIP	12PF	5%	50V							
C3	1-163-107-00	CERAMIC CHIP	39PF	5%	50V							
C4	1-163-086-00	CERAMIC CHIP	3PF		50V							
C5	1-164-232-11	CERAMIC CHIP	0.01uF		50V							
C6	1-126-964-11	ELECT	10uF	20%	16V							
C7	1-163-100-00	CERAMIC CHIP	20PF	5%	50V							
C8	1-163-090-00	CERAMIC CHIP	7PF		50V							
C9	1-163-104-00	CERAMIC CHIP	30PF	5%	50V							
C10	1-164-232-11	CERAMIC CHIP	0.01uF		50V							
C11	1-126-964-11	ELECT	10uF	20%	16V							
C12	1-164-232-11	CERAMIC CHIP	0.01uF		50V		J1	1-507-952-11	JACK			
C13	1-163-117-00	CERAMIC CHIP	100PF	5%	50V							
C14	1-124-927-11	ELECT	4.7uF	20%	100V							
C15	1-124-927-11	ELECT	4.7uF	20%	100V							
C16	1-126-964-11	ELECT	10uF	20%	16V		* L1	1-422-326-11	COIL, AIR-CORE (FM ANT)			
C17	1-163-074-00	CERAMIC CHIP	0.033uF		50V		L2	1-402-545-11	ANTENNA, FERRITE-ROD (MW)			
C18	1-163-035-00	CERAMIC CHIP	0.047uF		50V		* L3	1-422-320-11	COIL, AIR-CORE			
C19	1-126-964-11	ELECT	10uF	20%	16V		L4	1-406-028-00	COIL, OSC (MW)			
C20	1-124-472-11	ELECT	470uF	20%	10V		L5	1-422-341-11	COIL, AIR-CORE			
C21	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		< RESISTOR >					
C22	1-126-176-11	ELECT	220uF	20%	10V		R1	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
C23	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V		R2	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
C24	1-163-085-00	CERAMIC CHIP	2PF		50V		R3	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
							R4	1-216-295-00	METAL CHIP	0	5%	1/10W
							R5	1-216-295-00	METAL CHIP	0	5%	1/10W

REVISED

RADIO

Ref. No.	Part No.	Description	Remark		
R6	1-216-047-00	METAL CHIP	820	5%	1/10W
R7	1-216-198-00	METAL CHIP	1K	5%	1/8W
R8	1-216-246-91	METAL GLAZE	100K	5%	1/8W

< SWITCH >

S1 } 1-237-594-11 RES, VAR, CARBON (WITH S) 50K (OFF)
RV1 }
S2 1-552-370-00 SWITCH, SLIDE (BAND)

< TRANSFORMER >

T1 1-404-341-00 TRANSFORMER, IF

MISCELLANEOUS

ANT 1-501-247-31 ANTENNA, TELESCOPIC
SP 1-503-616-11 SPEAKER

ACCESSORIES & PACKING MATERIALS

 3-904-938-02 CARD, BOARD (ENGLISH)
(Includeing the Instruction manual)

* 3-904-937-01 CUSHION

HARDWARE LIST

#1 7-621-772-08 SCREW +B 2X3
#2 7-685-134-19 SCREW +BTP 2.6X8 TYPE2 N-S
#3 7-627-552-47 SCREW, PRECISION +P 1.7X4

